

Serial No. 10/542,165

Attorney Docket No. 02-152-TN

LISTING OF CLAIMS:

1. (Currently amended) A motor comprising:

a motor arrangement;

a speed reducing arrangement that includes:

a speed reducing mechanism that decelerates rotation of the motor arrangement;

and

a speed reducing mechanism receiving portion that receives the speed reducing mechanism;

a control circuit board that is received in the speed reducing mechanism receiving portion, wherein at least motor-side terminals for supplying electric power to the motor arrangement are mounted on the control circuit board as electrical circuit components; and

a connector housing, to which an external connector for connecting with the motor-side terminals is fitted, wherein:

the connector housing is formed separately from the speed reducing mechanism receiving portion;

the connector housing at least includes:

a connector supporting member that supports the external connector relative to the speed reducing mechanism receiving portion; and

an installation opening sealing member that is elastically deformable; and
deformable;

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the installation opening sealing member is interposed between the connector supporting member and an outer surface of the speed reducing mechanism receiving portion and is secured to a connector installation opening, which is formed in the speed reducing mechanism receiving portion;

the connector supporting member is formed into a tubular body and includes an annular flange portion, which protrudes outward from an outer peripheral surface of the connector supporting member; and

the installation opening sealing member is interposed between the flange portion and the outer surface of the speed reducing mechanism receiving portion, which is located around the connector installation opening.

2. (Canceled)

3. (Currently amended) A motor comprising:

a motor arrangement;

a speed reducing arrangement that includes:

a speed reducing mechanism that decelerates rotation of the motor arrangement;

and

a speed reducing mechanism receiving portion that receives the speed reducing mechanism;

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a control circuit board that is received in the speed reducing mechanism receiving portion, wherein at least motor-side terminals for supplying electric power to the motor arrangement are mounted on the control circuit board as electrical circuit components; and

a connector housing, to which an external connector for connecting with the motor-side terminals is fitted, wherein:

the connector housing is formed separately from the speed reducing mechanism receiving portion;

the connector housing at least includes:

a connector supporting member that supports the external connector relative to the speed reducing mechanism receiving portion; and

an installation opening sealing member that is elastically deformable;

the installation opening sealing member is interposed between the connector supporting member and an outer surface of the speed reducing mechanism receiving portion and is secured to a connector installation opening, which is formed in the speed reducing mechanism receiving portion;~~The motor according to claim 1, wherein:~~

the connector supporting member is formed into a tubular body, which has a bottom that includes through holes for receiving the motor side terminals ~~threthroughtherethrough~~; and

a terminal sealing member is provided around the motor-side terminals, wherein the terminal sealing member is elastically deformable and is pressed against and brought into contact with the bottom of the connector supporting member.

4. (Currently amended) A motor comprising:

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a motor arrangement;

a speed reducing arrangement that includes:

a speed reducing mechanism that decelerates rotation of the motor arrangement;

and

a speed reducing mechanism receiving portion that receives the speed reducing mechanism;

a control circuit board that is received in the speed reducing mechanism receiving portion, wherein at least motor-side terminals for supplying electric power to the motor arrangement are mounted on the control circuit board as electrical circuit components;

~~The motor according to claim 1 further comprising~~

~~a connector block that supports the motor-side terminals relative to the control circuit board;~~ board; and

a connector housing, to which an external connector for connecting with the motor-side terminals is fitted, wherein:

the connector housing is formed separately from the speed reducing mechanism receiving portion;

the connector housing at least includes:

a connector supporting member that supports the external connector relative to the speed reducing mechanism receiving portion; and

an installation opening sealing member that is elastically deformable;

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the installation opening sealing member is interposed between the connector supporting member and an outer surface of the speed reducing mechanism receiving portion and is secured to a connector installation opening, which is formed in the speed reducing mechanism receiving portion; and

~~wherein~~ a terminal sealing member is interposed between the connector supporting member and the connector block, and the terminal sealing member is elastically deformed between the connector supporting member and the connector block to seal between the connector supporting member and the connector block.

5. (Previously presented) The motor according to claim 1, wherein the connector supporting member has a stopper portion that is anchored to an inner surface of the speed reducing mechanism receiving portion.

6. (Previously presented) The motor according to claim 1, wherein:

the connector housing includes an inner panel sealing member;

the inner panel sealing member is brought into tight contact with a portion of an inner panel of a vehicle door, which is located around an insertion opening of the inner panel, so that the inner panel sealing member seals the insertion opening of the inner panel; and

the inner panel sealing member is made as the same member as the installation opening sealing member.

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7. (Previously presented) The motor according to claim 6, wherein the inner panel sealing member is molded integrally with the installation opening sealing member.

8. (Currently amended) The motor according to claim 6, ~~wherein~~ wherein:
a terminal sealing member is provided around the motor-side terminals; and
the inner panel sealing member is made as the same member as the terminal sealing member.

9. (Previously presented) The motor according to claim 8, wherein the inner panel sealing member is molded integrally with the terminal sealing member.

10. (Previously presented) The motor according to claim 6, wherein the inner panel sealing member is molded integrally with the connector supporting member.

11. (Previously presented) The motor according to claim 1, wherein:
at least the motor arrangement and the speed reducing arrangement are disposed outside an inner panel of a vehicle door; and
the external connector is inserted from inside the inner panel through an insertion opening formed in the inner panel.

12. (Canceled)

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13. (New) A motor comprising:

a motor arrangement;

a speed reducing arrangement that includes:

a speed reducing mechanism that decelerates rotation of the motor arrangement;

and

a speed reducing mechanism receiving portion that receives the speed reducing mechanism;

a control circuit board that is received in the speed reducing mechanism receiving portion, wherein at least motor-side terminals for supplying electric power to the motor arrangement are mounted on the control circuit board as electrical circuit components; and

a connector housing, to which an external connector for connecting with the motor-side terminals is fitted, wherein:

the connector housing is formed separately from the speed reducing mechanism receiving portion;

the connector housing at least includes:

a receiving member that receives the external connector; and

an installation opening sealing member that is elastically deformable;

the installation opening sealing member is interposed between the receiving member and an outer surface of the speed reducing mechanism receiving portion and is secured to a connector installation opening, which is formed in the speed reducing mechanism receiving portion;

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the receiving member is formed into a tubular body and includes an annular flange portion, which protrudes outward from an outer peripheral surface of the receiving member; and

the installation opening sealing member is interposed between the flange portion and the outer surface of the speed reducing mechanism receiving portion, which is located around the connector installation opening.